Use Attainability Analysis

for

WBID 0287 Elkhorn Creek

Submitted by Tetra Tech, Inc

To Missouri Department of Natural Resources Water Protection Program

· 图页图0

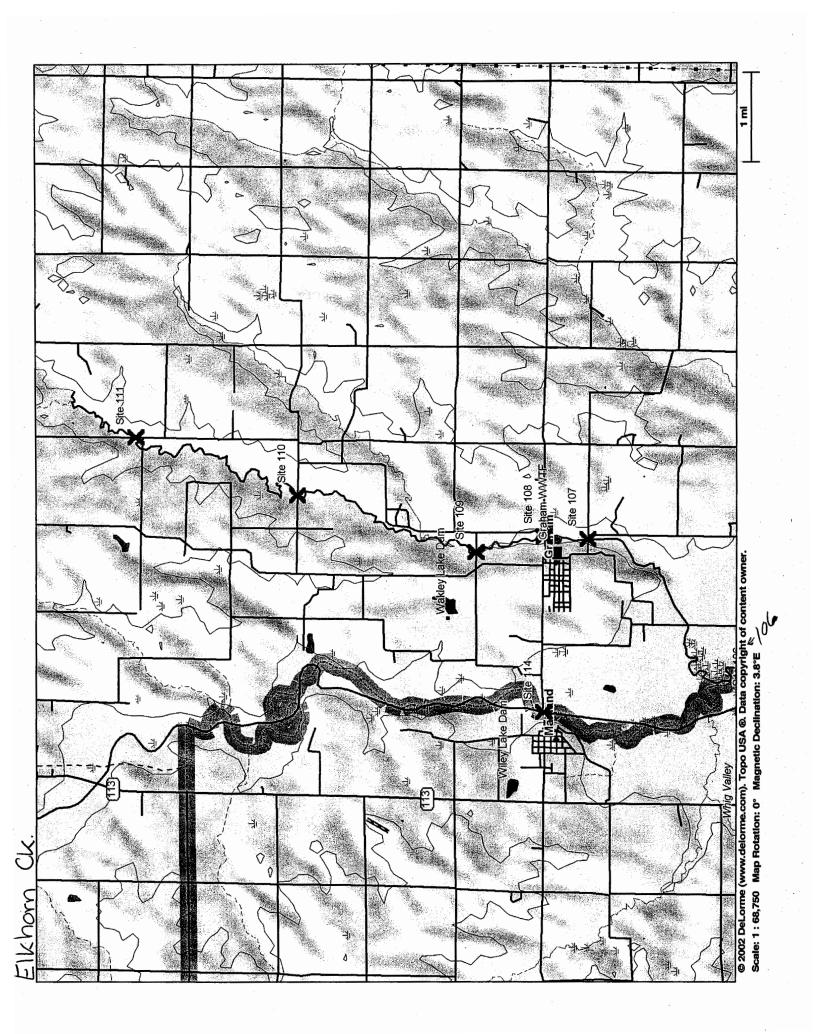
Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

Water Body Name: (from USGS 7.5' quad) EllChorn Cr.
8-digit HUC: \02400\0
Missouri WBID#: 10287
County: Nodaway
Upstream Legal Description: NA
Downstream Legal Description: NA
Upstream Coordinates: 40.26858°N, 9501008°W
Downstream Coordinates: (UGS 84, ddd, ddddd) 40 19552, 95.03202 w
Discharger Facility Name(s): Graham WWTF
Discharger Permit Number(s): NA
Number of Sites Evaluated:
Name of Surveyor and Telephone Number: Shanner Prendergast 703-385-6000
Organization: Tetra Tech
Position: Scientist

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Sha Createrys Date: 7/4/05



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: /	287		Site Location D	escription: # ///			
	Site GPS Coordinates: 4		.01008°h	J 20	Fairmond Rd			
	Date & Time: 7/10/c	. 4.5	· · ·	Facility Name:				
	Personnel:	IR		Permit Number:				
	Current Weather Condition	ons: Sun he	T.	Weather Condit	ions for Past 7 days: 🤸	a bot		
	Photo Ids: Upstream:	Down	nstream: [(a) Othe	r: NA	/ /		
			•	· · · · · · · · · · · · · · · · · · ·				
Us	es Observed*:	I						
	☐ Swimming	☐ Skin diving	□ S(CUBA diving	☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking	□В	oating	☐ Wading	☐ Rafting		
	☐ Hunting	☐ Trapping	□ Fi		None of the above	☐ Other:		
	Describe: (include numbe	er of individuals recr	eating, freque	uency of use, photo	-documentation of evidence	of recreational uses, etc.)		
-						•		
)								
_								
	rrounding Condition ns of interest.)	S*: (Mark all that pr	romote or in	npede recreational u	ises. Attach photos of evider	ice or unusual		
11.01	☐ City/county parks	☐ Playgrounds	☐ MDC co	onservation lands	☐ Urban areas	☐ Campgrounds		
	☐ Boating accesses	☐ State parks	☐ Nationa	l forests	☐ Nature trails	☐ Stairs/walkway		
	☐ No trespass sign			opes tough to	Dother: Ogicalt	me, forces		
			<u> </u>	to down to	1 f 5 mm 5 3 (3 c 22 : 1	-, , , , , , , , , , , , , , , , , , ,		
Ev	idence of Human Us	e*:			1	·		
	PLRoads/OCIDER	☐ Foot paths/print	ts 🗆 1	Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites		Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
	□ Other:							

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

ge Two – Data S	Sheet B for V	VBID # <u>0287</u>	•		
eam Morpholog	7570	site# to	<i>I</i> II		
Upstream View		nensions:			
☐ Riffle Width		Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
'⊠ Run Width	(ft): 1)	Length (ft):	Avg. Depth (ft):	Max. Depth (4).	70 cm
□ Pool Width	(ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	15
Flow Presen	t? 🗆 Yes	D No	Estimated (ft ³ /se	c):	
		V			
Downstream Vi					
□ Riffle Width	`	Length (ft):	Avg. Depth (ft):	Max. Depth (ft)	
Run Width	<u> </u>	Length (ft): /5	Avg. Depth (ff);	1.5 Max. Depth (At): 8	50 cm
□ Pool Width	(ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):	
Flow Presen	t? ▼Yes	□ No	Estimated (ft ³ /sec	E): Not measure 64	
,		90	7/1/2		
Strate*: (These % Cobble	values should a	dd up to 100%.)	% Sand 9	% Silt Z/) % Mud/Clay	% Bed
uatic Vegetation	11*: (note amou	nt of vegetation or al	gal growth at the assessm	ent site)	
				ent site)	
uatic Vegetation ter Characteris Odor:			none	ent site) None Other:	
iter Characteris	stics*: (Mark a	all that apply.)	∩ord □ Chemical □		
ter Characteris	stics*: (Mark a	all that apply.) ☐ Musky	Chemical G	None	-/g~i
ter Characteris Odor: Color:	Stics*: (Mark a Sewage Clear Sludge	all that apply.) ☐ Musky ☐ Green ☐ Solids	☐ Chemical ☐ Gray ☐ Fine sediments ☐	None	-Jg~u
oter Characteris Odor: Color: Bottom Deposit:	stics*: (Mark a	all that apply.) Musky Green Solids	☐ Chemical ☐ Gray ☐ Fine sediments ☐	None	-Jg~
Odor: Color: Bottom Deposit: Surface Deposit:	Stics*: (Mark a Sewage Clear Sludge	all that apply.) ☐ Musky ☐ Green ☐ Solids ☐ Scum	Chemical Che	None	-Jg~
Odor: Color: Bottom Deposit: Surface Deposit:	Stics*: (Mark a Sewage Clear Sludge Oil attach addition	Musky Green Solids Scum Could	Chemical Gray Fine sediments Foam coloring information	None	-/g~
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no	Stics*: (Mark a Sewage Clear Sludge Oil attach addition	Musky Green Solids Scum Could onal comments (in	Chemical Gray Fine sediments Foam cluding information cecreational use designation	None	-lg~
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understa	Stics*: (Mark a Sewage Clear Sludge Oil attach addition to be used sole	Musky Green Solids Scum Could onal comments (in	Chemical Gray Fine sediments Foam cluding information ecreational use designation ently, this information is a	None	-/g~
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understa	Stics*: (Mark a Sewage Clear Sludge Oîl attach addition to be used sole anding of water on use analysis	Musky Green Solids Scum Could onal comments (included for removal of a reconditions. Consequent to consequent to consequent to consequent may point to consequent to consequent may point may	Chemical Gray Fine sediments Foam cluding information eccreational use designation ently, this information is a ditions that need further ar	None Other: Milky Other: Low Walls of the Control	- J
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understate sion on the recreation	Stics*: (Mark a Sewage Clear Sludge Oil attach addition to be used sole anding of water on use analysis in the contract of the contract o	Musky Green Solids Scum Could onal comments (in the conditions of a reconditions of a reconditions of a reconditions of a recondition of a	Chemical Gray Fine sediments Foam cluding information eccreational use designation ently, this information is a ditions that need further ar	None	
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understa sion on the recreation the undersigned, asheet is true an	Stics*: (Mark a Sewage Clear Sludge Oil attach addition to be used sole anding of water on use analysis in the contract of the contract o	Musky Green Solids Scum Could onal comments (in the conditions of a reconditions of a reconditions of a reconditions of a recondition of a	Chemical Gray Fine sediments Foam cluding information eccreational use designation ently, this information is a ditions that need further ar	None Other: Milky Other: Low Walls of the Control	- 13° - 1
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understate sion on the recreation	Stics*: (Mark a Sewage Clear Sludge Oil attach addition to be used sole anding of water on use analysis in the contract of the contract o	Musky Green Solids Scum Could onal comments (in the conditions of a reconditions of a reconditions of a reconditions of a recondition of a	Chemical Gray Fine sediments Foam cluding information eccreational use designation ently, this information is a ditions that need further ar	None Other: Milky Other: Low Walls of the Control	<i>13</i> · ·
Odor: Color: Bottom Deposit: Surface Deposit: mments: Please is information is no prehensive understa sion on the recreation the undersigned, asheet is true an	Stics*: (Mark a Sewage Clear Sludge Oil attach addition to be used sole anding of water on use analysis in the contract of the contract o	Musky Green Solids Scum Could onal comments (in the conditions of a reconditions of a reconditions of a reconditions of a recondition of a	Chemical Gray Fine sediments Foam cluding information eccreational use designation ently, this information is a ditions that need further ar	None Other: Milky Other: Low Walls of the Control	

September 29, 2004

0287-111-US





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Missouri WBID#:	287		Site Location Description:					
Site GPS Coordinates: L	10.24258		on 350 st.					
To /	105 6:04	Pn_	Facility Name	e: Graham WW	F			
Personnel:	Ŕ	<i>V</i>	Permit Numb	er: NA				
Current Weather Condition	ons: June Lo	 	Weather Con-	ditions for Past 7 days: Sw	ing, het			
		nstream:	59 0	ther: NA	, , , , , , , , , , , , , , , , , , ,			
	100	, '		· * * * * * * * * * * * * * * * * * * *				
Uses Observed*:	Т				· · ·			
☐ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□Во	ating	☐ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	□ Fis	_	None of the above	☐ Other:			
Describe: (include numbe	er of individuals rec	reating, frequ	ency of use, pho	to-documentation of evidence	of recreational uses, etc.)			
•	s*: (Mark all that p	promote or im	pede recreations	al uses. Attach photos of evider	nce or unusual			
items of interest.)	"							
☐ City/county parks	☐ Playgrounds	☐ MDC co	nservation lands	☐ Urban areas	☐ Campgrounds			
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway			
☐ No trespass sign	☐ Fence	☐ Steep slo	pes	Other: Agricul	me a/			
Evidence of Human Use	a*.			to rest	- buffer			
			N1-(-1-+6	FI I :	□ RV / ATV Tracks			
Roads bridge	☐ Foot paths/prit		Dock/platform	☐ Livestock Watering	· · · · · · · · · · · · · · · · · · ·			
☐ Rope swings	☐ Camping Sites		ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle			
Other: Som	· garbage	- dun	ped in	Proc				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: /)) 4 7		Site Location Description: # [69				
Site GPS Coordinates: 4	0.21392N 95.	03482 6					
Date & Time: \\\ \lo\o\o\cdot	5		Facility Name:	Facility Name: Graham WWTF			
Personnel: 50 18			Permit Number:				
Current Weather Condition	ons: Same	hat	Weather Condit	ions for Past 7 days:	num hat		
Photo Ids: Upstream: [50 Down	nstream: {	55 Othe	1: 157 (cattle i	stran		
Uses Observed*:	,			158 (concrete co	666		
☐ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□ Boa	iting	☐ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish	ing	☑ None of the above	☐ Other:		
	S*: (Mark all that pa	romote or im	pede recreational u	uses. Attach photos of evide	nce or unusual		
	S*: (Mark all that pa		pede recreational unservation lands	uses. Attach photos of eviden	nce or unusual Campgrounds		
tems of interest.)	1		nservation lands	<u> </u>			
	☐ Playgrounds ☐ State parks ☐ Octh-Wire Fence	☐ MDC con ☐ National ☐ Steep slop	nservation lands forests	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds		
tems of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC cor	nservation lands forests	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds		
tems of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign Evidence of Human Use	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con ☐ National ☐ Steep slop	nservation lands forests	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds		
tems of interest.) ☐ City/county parks ☐ Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC con ☐ National ☐ Steep slop Cattle o	nservation lands forests pes C 70 35 5 7 re	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds ☐ Stairs/walkway		

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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0287-109-US







₩ Riffle		imensions:		
	Width (ft): 20	Length (ft): 40	Avg. Depth (ft) 0.05	Max. Depth (ft):0,5
□ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
□ Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
∏ Flow	Present? Yes	□No	Estimated (ft ² /sec):	Hsec
Downstrea	m View Physica	Dimensions:	·	
Riffle	Width (ft):	Length (ft): /OO	Avg. Depth (ft): りんな	Max. Depth (ft): 0,5
□ Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
□ P∞i	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
D Flow	Present? XYes	□ No		P+/second
	ds under the		7/10/05	
	These values should Cobble 20		Sand % Silt	20 % Mud/Clay % Bedro
. 80%	10 %			
ater Chara	cteristics*: (Mark			
	☐ Sewage		Chemical None	□ Other:
Color:	☐ Clear		Gray Milky	· //·- ··
Bottom Dep	_ Bladge	☐ Solids ☐	Fine sediments None	Other:
Surface Dep	osit: 🗆 Oîl	□ Seum □	Foam 💆 None	Other:
his information inprehensive un ission on the re the undersi	n is not to be used so nderstanding of wate ccreation use analysi.	lely for removal of a recreate conditions. Consequents but may point to condition to the best of m	uding information from in eational use designation but rathly, this information is not intended to the eations that need further analysis or y knowledge, that all info	ner is to provide a more ded to directly influence a

Page Two – Data Sheet B for WBID #<u>ਨਿ</u>2ਿਤੀ

September 29, 2004

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 👌 🎖	₹87		Site Location Description: # 108					
Site GPS Coordinates: 4	0.20258 N. 95	()311, ()	Just pu	of Elkhon tral	on St.HW. A			
Date & Time: 7 10	05 4 18 AL	-	Facility Name:	Just past Elkhan trail on St. HW. A Facility Name: Graham WWTF				
Personnel: Se	YR.		Permit Number	: NA				
Current Weather Condition	ons: Hot Sunn		Weather Condi	tions for Past 7 days: Sun	- Heet			
Photo Ids: Upstream:		nstream: \L	Othe		1			
Uses Observed*:								
☐ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□ Bo	ating	☐ Wading	☐ Rafting			
☐ Hunting	☐ Trapping	☐ Fis		None of the above	☐ Other:			
Describe: (include numbe	er of individuals recre	eating, frequ	ency of use, photo	-documentation of evidence	of recreational uses, etc.)			
Surrounding Condition items of interest.)	s*: (Mark all that pr	romote or im	pede recreational	uses. Attach photos of evider	nce or unusual			
	□ Planaramata	□ MDC ***	nservation lands	☐ Urban areas	[] Commerciands			
☐ City/county parks	☐ Playgrounds				☐ Campgrounds			
☐ Boating accesses	☐ State parks	☐ National		□ Nature trails	☐ Stairs/walkway			
☐ No trespass sign	☐ Fence	☐ Steep slo	pes	Other: Copland	forest			
Evidence of Human Use	ex: None			, ,				
□ Roads	☐ Foot paths/print	ts 🗆 I	ock/platform	☐ Livestock Watering	☐ RV / ATV Tracks			
☐ Rope swings	☐ Camping Sites		ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle			
☐ Other:								
			· · · · · ·					

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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0287-108-US







Page Two – Data S	Sheet B for W	BID# <u>/) 2.8</u>	<u>ን :</u>			
Stream Morpholog Upstream View	53 •	site#10	E			
☐ Riffle Width		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Run Width	(ft): [5	Length (ft):	(157) Avg. Depth	(ft): 175	Max. Depth (ft):	15
☐ Pool Width	(ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	
Flow Present	t? ⊠Yes	□No	Estimated (1	13/sec): 5 ft	18 500	
\			30	7-(0-65	00-0	
Downstream Vi		Dimensions:				
☐ Riffle Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Run Width	(ft): 15	Length (ft):	200 Avg. Depth	(ft): / D	Max. Depth (ft):	2.0
□ Pool Width	(ft):	Length (ft):	Avg. Depth	<u> </u>	Max. Depth (ft):	
Flow Presen	t? XYes	□ No	Estimated (f	13/1800): 5 A	/168ec	
Substrate*: (These		ld up to 100%.) Gravel 60	% Sand	7/10/05 8ilt 20	/ O % Mud/Clay	% Bedrock
	1,0					
Aquatic Vegetation	brownish or jus	substance t clay N	or algal growth at the assure of Sedination	essment site) Could be Could be Could be	e dans	
Water Characteris	stics*: (Mark a	ll that apply.)				
Odor:	□ Sewage	□ Musky	☐ Chemical	Ճ None	☐ Other:	
Color:	D Clear	☐ Green	☐ Gray	Milky/clau	L Other: 60	wn
Bottom Deposit:	□ Sludge	□ Solids	Fine sediments	☐ None	Other:	
Surface Deposit;	□ Oil	☐ Scum	☐ Foam	None None	☐ Other:	
*This information is no comprehensive underst decision on the recreati	t to be used sole anding of water on use analysis be, hereby affir addressed for the courate.	ly for removal of conditions. Con out may point to rm to the best	s (including information of a recreational use design sequently, this information conditions that need further of my knowledge, to	nation but rather on is not intende her analysis or th that all inform	r is to provide a more d to directly influence nat effect another use.	a
		7. B.	7/0/05			

September 29, 2004

Page 19

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#:	87		Site Location D	escription:#107			
Site GPS Coordinates:40	19545°N_ 95.03	167°W]				
Date & Time: 7/10/04	5.05 02		Facility Name:	Facility Name: Graham GUNTF			
Personnel:	R		Permit Number:				
Current Weather Condition	ins; Surmy h	it	Weather Condit	Weather Conditions for Past 7 days:			
Photo Ids: Upstream:		nstream: /	5 Othe	1:149/Old bridge /1	chal		
Uses Observed*:	•	•	,				
☐ Swimming	☐ Skin diving	□ SCI	JBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□ Boa	iting	☐ Wading	☐ Rafting		
☐ Hunting	☐ Trapping	☐ Fish		None of the above	☐ Other:		
!					į		
Surrounding Conditions items of interest.)	S*: (Mark all that p	romote or imp	pede recreational u	ses. Attach photos of evider	nce or unusual		
☐ City/county parks	☐ Playgrounds	☐ MDC cor	servation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	☐ Steep slop	es	De Other: Agricult	re/coplanda/		
Evidence of Human Use	*:			forest k	in the		
VI Roads bridge	☐ Foot paths/prin	ts 🗆 De	ock/platform	☐ Livestock Watering	□ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites	☐ Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
☐ Other:	. <u>.</u>						

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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0287-107-US







Page Two – Data Sheet B for WBID # 1/287 : 5He # 107 Stream Morphology: Upstream View Physical Dimensions: Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Riffle Width (ft): [つ Length (ft): I_{γ} Avg. Depth (ft): Max. Depth (ft): 0 🖬 Run Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): ☐ Pool Estimated (ft³/sec): 🗹 Flow Present? ☐ No Downstream View Physical Dimensions: Width (ft): Max. Depth (ft): Length (ft): Avg. Depth (ft): ☐ Riffle Width (ft): Avg. Depth (ft): Max. Depth (ft): Д″Run Length (ft): Width (ft): Max. Depth (ft): Length (ft): Avg. Depth (ft): ☐ Pool Estimated (ft³/sec): 🛱 Flow Present? □ No Substrate*: (These values should add up to 100%.) % Cobble % Gravel % Silt % Mud/Clay % Bedrock % Sand Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) algae on 10% of colobe Water Characteristics*: (Mark all that apply.) None Odor: □ Chemical ☐ Other: ☐ Sewage ☐ Musky Color: ☐ Green □ Gray Other: brown **Bottom Deposit:** X None ☐ Other: ☐ Sludge □ Solids ☐ Fine sediments Surface Deposit: None [] □ Oil ☐ Scum Other: ☐ Foam Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate. Organization:

September 29, 2004

Page 19

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #:	287			Description: # 106 a	L †				
	Site GPS Coordinates: L	10.19552°N 95.	0320	52°W - 150	m downstream	1 Site #107				
	Date & Time: 7/10/05	5.20		1	Facility Name: Graham WWTF					
	Personnel: S₽	YR		Permit Number	r: NA					
ĺ	Current Weather Condition	ons: Sun-	. <i>t</i>	Weather Condi	Weather Conditions for Past 7 days: Sunny Weather					
	Photo Ids: Upstream; /	' - '	nstrean	1: 152 Oth	er: AA 154= 9	where frame				
Us	es Observed*:			. •	38-7/10/65	Shrage				
	☐ Swimming	☐ Skin diving	[☐ SCUBA diving	☐ Tubing	☐ Water skiing				
	☐ Wind surfing	☐ Kayaking		Boating	☐ Wading	☐ Rafting				
	☐ Hunting	☐ Trapping	[☐ Fishing	✓ None of the above	Other:				
	Describe: (include numbe	er of individuals recr	eating,	frequency of use, photo	o-documentation of evidence	of recreational uses, etc.)				
	·									
)										
						·				
	Some									
c	erounding Condition	*** 0 (-1-11 1)		:	Amada — barra a Cardda					
	ns of interest.)	s": (Mark all that p	romote	or impede recreational	uses. Attach photos of evider	ice of unusual				
	☐ City/county parks	☐ Playgrounds	□ мі	OC conservation lands	☐ Urban areas	☐ Campgrounds				
	☐ Boating accesses	☐ State parks	□ Na	tional forests	☐ Nature trails	☐ Stairs/walkway				
	☐ No trespass sign	☐ Fence	☐ Ste	ep slopes	Other: frest by	RG C				
Εv	idence of Human Use	e*:			Agrizal	ture copbud				
	Roads 7-10-05	☐ Foot paths/prin	ts	☐ Dock/platform	☐ Livestock Watering	□ RV / ATV Tracks				
مم	☐ Rope swings	☐ Camping Sites		☐ Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle				
	Other: Son	garbre		- have flow	led downston					
		7.1	1	ν						

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.



0287-106-DS





Page Two – D	ata Sheet		V BID # <u>り</u> え参写				
' Stream Morp	hology:	57	代# 106 a	14			
Upstream		sical Dir	nensions:	-			
☐ Riffle	Width (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
K Run	Width (ft):	io	Length (ft):	Avg. Depth	(ft): 0,5	Max. Depth (ft):	1.0
☐ Pool	Width (ft):	,	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Flow	Present?	Yes	□ No	Estimated (fi ² /sec): 5 4	4/8 sec	٠.
Downstrea	m View F	hvsical !	Dimensions:	35	7/10/25	,	
	Width (ft):	_ ·	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run	Width (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
X Pool	Width (ft):	12	Length (ft):	Avg. Depth	(ft): ((Max. Depth (ft);	70 cm
Flow	Present?	Yes	□ No	Estimated ((1 ² /sec): 5 f4/	12 500 7/10/	/
7				F	110/05	1.72	
	These value Cobble		dd up to 100%.) Gravel 60	% Sand	% Silt 3	O % Mud/Clay	% Bedrock
	200010		Claver GO	- 70 5410	70 511 5	70 Made Clay	70 Deditors
quatic Vege	tation*: (note amou		algal growth at the ass			
			Some	algae on	debris,	wood	
				J	,		
7-4 CI	4	<u> </u>					
Odor:				Chamical .	r¥ v	Others	
Color:		Sewage	☐ Musky	□ Chemical	None	Other:	
Bottom Depo		Clear	☐ Green	☐ Gray	[XMilky		m
	 _	Sludge	□ Solids	☐ Fine sediments	None None	Other:	
Surface Dep	osit:	Oil	Scum brow	J/Foam	□ None	☐ Other:	
mments: P	lease attac	ch additio	onal comments	(including informat	tion from inte	rviews) to this form	1.
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				recreational use design quently, this information		r is to provide a more ed to directly influence :	a
				onditions that need furth			
the undersi	gned, her	ebv affii	rm to the best o	of my knowledge. 1	that all infor	mation reported o	n this UAA
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gned:	>var		" moderga	Date:_	-710102		
ganization:_	Tex	·	ech.	Positio	n: <u>San</u>	tit	
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_	er 29, 2004						ige 19

ge Two -	- Data Sho	et B for V	WBID # <u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</u>	7_:				
ream Mo	rphology	Si	k#110					
Upstream	m View P	ıysical Di	mensions:					
☐ Riffle	Width (ft):	Length (ft):	A	vg. Depth (ft):		Max. Depth	(ft):
X Run	Width (ft	1: 12	Length (ft):	Δ	vg. Depth (ft):	05	Max. Depth	(ft): 1.0
□ Pool	Width (ft):	Length (ft):	A	vg. Depth (ft):		Max. Depth	(ft):
Flow	Present?	☐ Yes	X No_	E	lstimated (ft³/se	c):		
Downstr	eam View	Physical	Dimensions:					
🗀 Riffle	Width (ft):	Length (ft);	A	vg. Depth (ft):		Max. Depth ((ft):
Ì Ş(`Run	Width (ft): 6	Length (ft):	75 A	vg. Depth (ft):	0.25	Max. Depth ((ft): 0.5
□ Pool	Width (ft):	Length (ft):	A	vg. Depth (ft):		Max. Depth ((ft):
Flow	Present?	ÌX Yes	□ No	Е	stimated (ft ³ /sec	c): 1 (†	kec	
bstrate*:	: (These val	ues should a	ıdd up to 100%.))		_		
	% Cobble	%	Gravel	% Sand	9	% Silt /(X)	% Mud/Clay	% Bedrock
notio Vo	antation k	80%	,	20%			į	
uatic ve	getation	(note amou	int of vegetation	or algai growth	at the assessme	ent site)		
			MM					
_								
ater Cha	racteristic	·c*· (Mark	all that apply.)					
Odor:		Sewage	☐ Musky	☐ Chem	nical 🖒	None	Other:	
Color:		Clear	☐ Green	☐ Gray		Tiff(Milky	76. /	rohin
Bottom D		Sludge	☐ Solids		,	None	Other:	
Surface D		Oil	☐ Scum	☐ Foam	<u> </u>	None	☐ Other:	••
		- On ·	L Bount	L 1 (M1)	' ' ' '	ivone	Li Quici,	
mments:	Please at	ach additi	onal commen	ts (including	information i	from interv	riews) to this fo	orm.
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							s to provide a more to directly influen	
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	rsigned, h s true and			st of my kno	wledge, that	all inform	ation reported	d on this UAA
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Septe	mber 29, 20	4/1	/					Page 19
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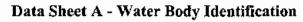
0287-110-US







REVISIT



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					Jan Ar

	E1() ((a.)
Water Body Name: (from USGS 7.5' quad) Elkhorn Cr	
8-digit HUC: (62 4 00 10	
Missouri WBID #: 287	
County: Nodaway	<u>.</u>
Upstream Legal Description: / NA	
Downstream Legal Description: NH	
Upstream Coordinates: (UGS 84, ddd.ddddd) 40 26858°N, 95.01008°W	
Downstream Coordinates: (UGS 84, ddd.ddddd) 40.19545 N 95.031674)	
Discharger Facility Name(s): Graham WUTF	
Discharger Permit Number(s): NA	
Number of Sites Evaluated:	
Name of Surveyor and Telephone Number: Shanner Prenderet 70:	3-385-6000
Organization: Teta Tech Inc	,,,
Position: Scientist	
I, the undersigned, hereby affirm to the best of my knowledge, that all informatidates datasheet is true and accurate.	on reported on this UAA
Signed: Sha Prederge Date: 7/12/	/ 35-
12. 2/2/5	

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID#:	1007		Site Location De	scription: #107 day	lizete
	Site GPS Coordinates: \mathcal{U}	1287 1) 19545°N 92	C15311.7*[]	off	of Echo Rd -	_
	(2/05	3 Down W	Facility Name:	Graham www	TP
	Personnel: SP. VI	₹		Permit Number:	NA	
	Current Weather Condition	ons: Sunna la	et -	Weather Condition	ons for Past 7 days: Sha	my hot
		. II N°	nstream: 2		217/remains	Fold bridge
Us	es Observed*:	•	"		pos	35.164)
	☐ Swimming	□ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking	☐ Bo	ating	☐ Wading	☐ Rafting
	☐ Hunting	☐ Trapping	☐ Fisl	hing	None of the above	☐ Other:
			- •	_	documentation of evidence	
	Talled to	- ma	who I	ives mark	ey said no.	on
	ne con	the '- Y	l. a	1.	/	
	16614	Des / C	1. hr 23 d	ear non	· c	
						·
Sm	rrounding Condition	E*! (Mork all that =	romota or im	nada regrectional us	ses. Attach photos of evider	oo or unuqual
	is of interest.)	a . (Waik als mar p	nomore or mi	pede recreationar us	ses. Attach photos of evider	ice of unosual
	☐ City/county parks	☐ Playgrounds	☐ MDC cor	nservation lands	☐ Urban areas	☐ Campgrounds
	☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☐ Fence	☐ Steep slo	pes	OrOther: As a 1/2	re/cooland.
P vi	idence of Human Yla	- *·			torest 1	ife,
EV.	idence of Human Use	·			<u> </u>	<u> </u>
ŀ	Road Bridge	☐ Foot paths/prir		ock/platform	☐ Livestock Watering	□ RV / ATV Tracks
	☐ Rope swings	☐ Camping Sites	□F	ire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
-	Other: Pas	side ald b	18258	Smell	aman I of gard	hage under bridge
Site	e Locations Man(s):	Attach a man of	entire seam	ent with assessm	ل المعادة الم المعادة المعادة المعاد	d Mark anv

may point to conditions that need further analysis or that effect another use.

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but

other items that may be of interest. (Include photographs)

rage rwo - Data		- (7 duplicate			
Stream Morpholo <u>Upstream</u> View	24		, aug. = 11			
□ Riffle Width		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	 -
Run Width		Length (ft): ろ		``	Max. Depth (ft):	10
□ Pool Width		Length (ft):	Avg. Depth	· · · · · · · · · · · · · · · · · · ·	Max. Depth (ft):	1-0
Flow Presen	nt? ∜ Yes	□ No	Estimated (4/143 seco-15	······································
Downstream V		Dimensions:	502-	1/11/05	1	
☐ Riffle Width		Length (ft):	Avg. Depth		Max. Depth (ft):	
Run Width	(ft): 10		Avg. Depth		Max. Depth (ft):	(0)
□ Pool Width	ı (ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	1202
Flow Preser	nt? Yes	□ No	Estimated ()	27sec): 5 f	+/5.880.	
ubstrate*: (These		odd up to 100%.)	% Sand	7/12/05 % Silt	% Mud/Clay	% Bedroo
	·	_				
Aquatic Vegetatio	n*: (note amou	int of vegetation or a	algal growth at the asso	essment site)	/// 0	· · · · · · · · · · · · · · · · · · ·
-		sight amou	It of algue	e en co	proce.	
						
Vater Characteri	stics*: (Mark	all that apply.)				
Odor:	☐ Sewage	☐ Musky	☐ Chemical	None	☐ Other:	
Color:	☐ Clear	☐ Green	☐ Gray	Milky 7	*Other: baw	nish
Bottom Deposit:	☐ Sludge	□ Solids	☐ Fine sediments	None	☐ Other:	
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	None	Other:	
omments: Please	attach additi	onal comments (including informat	ion from inte	rviews) to this form	
			recreational use design			
			quently, this information aditions that need furth		ed to directly influence a hat effect another use.	
	-		•	-		. 41.5. YTA A
, the undersigned atasheet is true a	•		i my knowieage, i	nat all inter	mation reported or	this UAA
01	Δ	1 /		-1 1	_	
igned:	e	and 7	Date:	7/12/	05	
Organization:	Tetra	Tech.	Positio	n:S_}	mt3+	
	An	D 1/1/2				_
		N. 1/10/02				

September 29, 2004









Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #:	287		Site Location Des	700	
Site GPS Coordinates: U	0.20234'N 95.0	3/37"W		on Rd. A	in Graham
Date & Time: 7/12/6	. 1		Facility Name:	Gahan W	NTF.
Personnel: SP	YR.		Permit Number:	NA	
Current Weather Condition	ons: Sunny hot		Weather Conditio	ns for Past 7 days: Shr	ing hot
Photo Ids: Upstream:	228 Downstr	ream: 22	スプ Other:	229 (construction	` ' '
Uses Observed*:				13V	ld (Pillers,)
☐ Swimming	☐ Skin diving	□ scu	BA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	□ Boat	ing	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	☐ Fishi	ng	None of the above	Other:
Surrounding Conditions items of interest.)	S*: (Mark all that pron	note or imp	ede recreational us	es. Attach photos of eviden	ice or unusual
☐ City/county parks	☐ Playgrounds ☐	MDC con	servation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks ☐	National f	orests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	□ Fence □	Steep slop	es	XOther: Agazalt	~
Evidence of Human Use	**				
Roads	☐ Foot paths/prints	□ Do	ock/platform	☐ Livestock Watering	□ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites	□ Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
Other:	Concrete 8/4/20	dun	And old a	sade pillas	
			•	•	

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Length (ft): Length (ft): Length (ft): Length (ft): Ses INO CASSING Cal Dimensions: Length (ft): Length (ft): Length (ft): Length (ft): Ses INO Add add up to 100%.) Gravel 40	Avg. Depth (ft): Section 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
Length (ft): 75 Length (ft):	Avg. Depth (ft): 0.5 Avg. Depth (ft): 0.5 Avg. Depth (ft): 2.5 Avg. Depth (ft): 3.7	Max. Depth (ft): A+/23-3 Sec	
Length (ft): Tes No	Avg. Depth (ft): SP 7-12-05	Max. Depth (ft): Max. Depth (ft): Max. Depth (ft): Max. Depth (ft): A+/23-3 Sec	
cal Dimensions: Length (ft): Length (ft): Ves No	Avg. Depth (ft): Avg. Depth (ft): Avg. Depth (ft): Avg. Depth (ft): Sp. Depth (ft): Estimated (ft ³ /sec): 37-12-05	Max. Depth (ft): Max. Depth (ft): Max. Depth (ft): 4/23-3 Sec	· · · · · · · · · · · · · · · · · · ·
cal Dimensions: 1.12 Length (ft): Length (ft): Length (ft): Ves No	Avg. Depth (ft): Avg. Depth (ft): Avg. Depth (ft): Sp. 12-05	Max. Depth (ft): 1.5 Max. Depth (ft): A+ / 23.3 Sec	>
Length (ft): Length (ft): /50 Length (ft): Length (ft):	Avg. Depth (ft): 0.5 Avg. Depth (ft): Estimated (ft³/sec): 3.7 3.7 7-12-05	Max. Depth (ft): 1.5 Max. Depth (ft): A+ / 23.3 Sec	5
Length (ft): /50 Length (ft): Tes No ald add up to 100%.)	Avg. Depth (ft): 0.5 Avg. Depth (ft): Estimated (ft³/sec): 3.7 3.7 7-12-05	Max. Depth (ft): 1.5 Max. Depth (ft): A+ / 23.3 Sec	5
Length (ft): /50 Length (ft): Tes No ald add up to 100%.)	Avg. Depth (ft): Estimated (ft ³ /sec): 57	Max. Depth (ft):	<u> </u>
es □ No	Estimated (ft ³ /sec): 37	A+/23.3 Sec	
ald add up to 100%.)	8P-12-05		
	3P-12-05		
	· · · · · · · · · · · · · · · · · · · 	20 % Mud/Clay 9	& Bedrocl
mount of vegetation or als	gal growth at the assessment site)		
VOV	_		
ark all that apply.)			
e 🗆 Musky	☐ Chemical ☐ None	☐ Other:	
☐ Green	Gray Gray Milky	Other:	
Solids □	☐ Fine sediments None	Other:	·
□ Scum	□ Foam None	☐ Other:	
solely for removal of a re	ecluding information from in ecreational use designation but rationally, this information is not inten- litions that need further analysis of my knowledge, that all info	ner is to provide a more ded to directly influence a r that effect another use.	s UAA
a	71	11	Date: 7/12/05

September 29, 2004

0287-108-US-Revisited



0287-108-DS-Revisited



Data Sheet B - Site Characterization

	(A separate da			ed for each site) gp 7	
Missouri WBID #:) 8 7		Site Location De	scription: 3 te 246	applicate
Site GPS Coordinates: U	0.26858°N, 9.	5.01009	5°W	1()	•
Date & Time: 7/12/	· ·	-	Facility Name:	Graham W	WIP
Personnel:	YR		Permit Number:	NA	
Current Weather Conditi		t	Weather Conditi	ons for Past 7 days: Su	me hot
Photo Ids: Upstream:	226 Down	nstream:	225 Other	NA	7.1
Jses Observed*:				,	
☐ Swimming	☐ Skin diving	□s	CUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking		Boating	☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	ΔF	ishing	None of the above	☐ Other:
Describe: (include numb					
Describe: (include numb					
Describe: (include numb	18*: (Mark all that pr	romote or			
Surrounding Condition	ns*: (Mark all that pr				· . ·
Surrounding Condition	· · · · · ·		impede recreational u	ses. Attach photos of evide	nce or unusual
Surrounding Condition tems of interest.)	☐ Playgrounds	□ MDC	impede recreational u conservation lands al forests	ses. Attach photos of evide Urban areas Nature trails	Campgrounds ☐ Stairs/walkway
Surrounding Condition tems of interest.) □ City/county parks □ Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC	impede recreational u conservation lands al forests	ses. Attach photos of evide Urban areas Nature trails	nce or unusual □ Campgrounds
Surrounding Condition tems of interest.) □ City/county parks □ Boating accesses □ No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC ☐ Nation ☐ Steep s	impede recreational u conservation lands al forests	ses. Attach photos of evide Urban areas Nature trails	Campgrounds ☐ Stairs/walkway
City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence	☐ MDC ☐ Nation☐ Steep s	impede recreational u conservation lands al forests slopes	ses. Attach photos of evide Urban areas Nature trails Other: Trest agricultu	Campgrounds Stairs/walkway See 6/500e

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Pa	ge Two – Dat	a Sheet B for V	wbid # <u>287</u>	_: , , _			
St	ream Morpho	loov:	site	111 deflicate			
SI.	_	ew Physical Di	mensions:				
	☐ Riffle Wi	oth (ft):	Length (ft):	Avg. Depth	(ft): 7-12-05	Max. Depth (ft):	e 7/12/05
	Run Wi	dth (ft):	Length (ft): くん	Avg. Depth	90:50 cm	Max. Depth (ft):	90 cm
	□ Pool W	idth (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
	Y Flow Pro	esent? 🗆 Yes	No No	Estimated (1	ì³/sec):		
	Downstream	View Physical	Dimensions:				
	□ Riffle W	dth (ft):	Length (ft):	Avg. Depth	(ft): 7-12-05	Max. Depth (ft):	7-12-05
	NZ Run Wi	dth (ft): 15	Length (ft):	Avg. Depth	50 cm	Max. Depth (fr):	70 cm
	□ Pool Wi	dth (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
	Flow Pro	esent? 🗓 Yes	⋈ No	Estimated (f	t³/sec):		
-		SP 7-12			&P 7	-12-05	
Su	Dstrate*: (Th	ese values should a	Gravel 25	% Sand		7 % Mud/Clay	% Bedrock
		50			J.	5	
Ac	uatic Vegeta	tion*: (note amoi	int of vegetation or a	algal growth at the asso	essment site)		·
			\wedge	Jone			
,							
w	ater Characte	eristics*: (Mark	all that apply.)				
: :	Odor:	☐ Sewage	☐ Musky	☐ Chemical	None	☐ Other:	
	Color:	□ Clear	☐ Green	□ Gray	Milky Con	☐ Other:	
	Bottom Deposi	t: 🗆 Sludge	□ Solids	☐ Fine sediments	None None	Other:	
	Surface Deposi	t: 🗆 Oil	□ Scum	☐ Foam	None	☐ Other:	<u> </u>
Co	mments: Plea	ase attach additi	onal comments (including informat	ion from interv	views) to this form	
				recreational use design			
				uently, this information			l
		·	• •		•		
-	_	ed, hereby affi e and accurate.		f my knowledge, t	hat all inform	ation reported or	this UAA
174	tasneet is truc	anu accurate.	1 1		, ,		
Sig	med: X	en the	len J	Date:	7/12/05		
Эr	ganization:	Tetra T	ech	Positio	' '	+ist	<u>. </u>
)	•		Al Mal	plan			
			VL118.11	7 ⁽⁰⁾			

September 29, 2004

0287-111-US-Revisited







Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

					Si I			10
	Missouri WBID#;	87			Site Location L	Desk ^	cription: 110 diplication 330 on wood	te Listate
	Site GPS Coordinates: 41	0.24258°N 90	5.02	247 W	6^ C	K.,	330 AV MOO	anbriage
	Date & Time: 7/12/1	5 9:30 6	سيب		Facility Name:		Graham WWT	F
	Personnel:	SP. YR			Permit Number	r:	N#	
	Current Weather Condition	ons: Shany	سامحه	-	Weather Condi	itio	ns for Past 7 days: \int_{Λ}	nny het
	Photo Ids: Upstream:		vnstrea		23 Он	er:	224/garbase	7
Us	es Observed*:			•				
	☐ Swimming	☐ Skin diving		□ SCU	BA diving		☐ Tubing	☐ Water skiing
	☐ Wind surfing	☐ Kayaking		☐ Boat	ing		☐ Wading	□ Rafting
	☐ Hunting	☐ Trapping		☐ Fishi	ng		None of the above	☐ Other:
	Describe: (include numbe	er of individuals rec	reatin	g, frequer	ncy of use, photo	o-de	ocumentation of evidence	of recreational uses, etc.)
	•							
1								
'								
								•
		<u>-</u>						
C								
	rrounding Condition	S [▼] : (Mark all that _l	promot	te or impo	ede recreational	ușe	s. Attach photos of eviden	ce or unusual
ucen	ns of interest.)	T		· <u> </u>		Т		
i	☐ City/county parks	☐ Playgrounds		IDC cons	servation lands	4	☐ Urban areas	☐ Campgrounds
	☐ Boating accesses	☐ State parks		lational fo	orests	_	☐ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☐ Fence	yZ∕sı	teep slope	*	\perp	Other: Agricultur	elcopland.
Ev	idence of Human Use	e*:	, .			•	of some for	restarea +
	Roads Cial	☐ Foot paths/pri	nts	□ Do	ck/platform		☐ Livestock Watering	□ RV / ATV Tracks
	☐ Rope swings	☐ Camping Sites		☐ Fire	e pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	Q Other: Som	e frost	ρcz	babl	, than	w	from brid	5/
Gi+	a Locations Man(-)		n matter					d Marie au-
	e Locations Map(s): er items that may be o					sm	em sites clearly labele	d. Mark any
AIII	or recina mat may oc (vi mierest, (men	սսԵ ի≀	HOMBIS	hnel			

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

tream Morphol	02V:		2110	110 deplacate		
Upstream Vie		ical Dir	nensions:			<u>.</u>
☐ Riffle Wid	th (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
Run Wid	th (ft):	15	Length (ft):	50 Avg. Depth	(ft): 0.5	Max. Depth (ft):
□ Pool Wid	th (ft):		Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
Flow Pres	ent?	Yes	□ No		fi ³ /860): 5f	7/38.2 sec
Dormotusam I	7: 114		D!	89 7	12	,
Downstream V		iysicai .		Ave Death	(A).	Man Doort (A)
	th (ft):		Length (ft):	Avg. Depth		Max. Depth (ft):
	th (ft): /	5		Avg. Depth	<u> </u>	
	th (ft):		Length (ft):	Avg. Depth	.1./	Max. Depth (ft):
Flow Pres	ent?	Yes	□ No	Estimated (<u> </u>	5+1/7 sec
u <u>bstrate*:</u> (The	a valuar	should a	dd un to 100% \	se of	4/65	•
% Cob			Gravel 57)	% Sand	% Silt 50	% Mud/Clay % Bee
70 000			Clark, 50	A Cana	70 Barr '30	O Wilder City
104 01	<u> </u>	1109	100	el. c. 1	3.	rel . T
104 01	<u> </u>	1109	Grace 25	اراً الله الله الله الله الله الله الله ال	2	5th med
104 01	<u> </u>	1109	nt of vegetation o	ام الله الله ss r algal growth at the ass	essment site)	5° b med
104 01	OH*: (no	40% ote amou	nt of vegetation o	r algal growth at the ass	essment site)	5° b med
10% Col. Quatic Vegetati	on*: (no	40% ote amou	nt of vegetation o	r algal growth at the ass	essment site)	5 % med
Quatic Vegetati	on*: (no	40% ote amou	nt of vegetation o	r algal growth at the ass	essment site)	
Quatic Vegetati Vater Character	istics*:	40% ote amou	nt of vegetation o	r algal growth at the ass	essment site)	☐ Other:
Vater Character Odor: Color: Bottom Deposit: Surface Deposit:	istics*: Se Si Oi	40% ote amou	all that apply.) Musky Green Solids Scum	□ Chemical □ Gray □ Fine sediments	None Milky None None	Other:
Aguatic Vegetation of the undersigned atasheet is true	istics*: Se Sh	(Mark a cwage lear udge lil used sole of water of analysis by affir	all that apply.) Musky Green Solids Scum Onal comments ly for removal of conditions. Consecut may point to continuous and continuous are continuous as a continuous are continuous.	Chemical Gray Fine sediments Foam (including informate a recreational use designated and information of my knowledge, to the conditions that need further than the conditions that n	None None None None None nation from interestion but rather on is not intendenter analysis or the	Other: Other: Other: Other: Other: orviews) to this form. is to provide a more of to directly influence a that effect another use.
Vater Character Odor: Color: Bottom Deposit: Surface Deposit: omments: Pleas This information is remprehensive underscision on the recreate the undersigne	istics*: Se Sh	(Mark a cwage lear udge lil used sole of water of analysis by affir	all that apply.) Musky Green Solids Scum Onal comments ly for removal of conditions. Consecut may point to continuous and continuous are continuous as a continuous are continuous.	□ Chemical □ Gray □ Fine sediments □ Foam (including informate a recreational use designated and information on ditions that need further than the conditions that need further than th	None None None None None None None ion from intendent analysis or the character analysis or the	Other: Other: Other: Other: rviews) to this form. r is to provide a more of to directly influence a

0287-110-US-Revisited



0287-110-DS-Revisited



Data Sheet B - Site Characterization

	(A separate o	Jata Snet	t must be complete	ed for each site)	109 DUP
Missouri WBID #:	0287		Site Location D		
Site GPS Coordinates:	40.21356 95.03485 h	,	Bridge or	CR353	
Date & Time: 7	/	2900	Facility Name:	Groken WW	TF
Personnel: Du	1 6B		Permit Number:	NIA	
Current Weather Conditi	ions: Warm	Pry	Weather Conditi	ons for Past 7 days: Wa	cm Pry
Photo Ids: Upstream:		vnstream:	2-18 Othe		0
Uses Observed*:		·	219 (FENCE) 221 (LIVESTOR	t poth)	
☐ Swimming	□ Skin diving		SCUBA diving	☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking		Boating	□ Wading	☐ Rafting
☐ Hunting	☐ Trapping		Fishing	None of the above	☐ Other:
Surrounding Condition	18*: (Mark all that p	promote or	impede recreational u	ses. Attach photos of evider	nce or unusual
tems of interest.)			<u></u>		
☐ City/county parks	☐ Playgrounds	□ MDC	conservation lands	☐ Urban areas	☐ Campgrounds
☐ Boating accesses	☐ State parks	□ Natio	nal forests	☐ Nature trails	☐ Stairs/walkway
☐ No trespass sign	Fence	☐ Steep	slopes	Other: Az Field	S F&W
را Evidence of Human Us	Lunder Br.	dgE		9 5	fream
Roads	☐ Foot paths/prit	nts [Dock/platform	Livestock Watering	□ RV / ATV Tracks
☐ Rope swings	☐ Camping Sites		Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle
☐ Other:					

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two – Data Sheet B for WBID #_______:

☐ Riffle Width (Run Width (D Pool Width (ensions:			109 DUP
	,11): 	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
□ Pool Width	(ft): 20	Length (ft):	/O Avg. Depth	(ft): 0,25	Max. Depth (ft): 0.5
	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
Flow Present	? / X/Yes [□ No	Estimated (f		1 II
ownstream Vie	w Physical D	imensions:	da	7/12	
Riffle Width		Length (ft):	/O Avg. Depth	(ft): 0.25	Max. Depth (ft): 0.5
□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
□ Pool Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
Flow Present	.? X (Yes l	□ No	Estimated -(f	1³/300) : <u>5</u>	= 1 £
strate*: (These value of Cobble 30	70 % G	ravel 70 50	% Sand O algal growth at the asse	•	% Mud/Clay % Bed
ter Characteris				W.,	
7					-:
			-		
			☐ Fine sediments	None None	☐ Other:
Surface Deposit:	Oil	□ Scum	☐ Foam	None	☐ Other:
Odor: Color: Bottom Deposit: Surface Deposit:	□ Sewage □ Clear □ Sludge □ Oil	☐ Musky ☐ Green ☐ Solids ☐ Scum	☐ Chemical ☐ Gray ☐ Fine sediments ☐ Foam including informat		

0287-109-US-Revisited



